

## WHAT IS CLAIMED IS:

Sub By  
2 1. A method for generating random data bits in wireless communications device, comprising the steps of:  
4 processing a received signal; and  
extracting said random data bits from said processed receive signal.

2 2. The method of Claim 1 wherein said step of processing said received signal comprises the step of processing said received signal with a receive automatic gain control circuit.

2 3. The method of Claim 1 wherein said step of processing said received signal comprises the step of processing received signal with a DC Offset Correction Loop.

2 4. The method of Claim 1 wherein said step of processing said received signal comprises the step of processing received signals with a Time Tracking Loop.

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2 5. An encryption system, comprising:  
4 a random number selector subsystem for generating random numbers from data bits generated from existing wireless phone hardware; and  
an encryptor for encrypting a signal using said random numbers.

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2 6. The encryption system of Claim 5 wherein said existing wireless phone hardware comprises a Receive Automatic Gain Control circuit .

2 7. The encryption system of Claim 5 wherein said existing wireless phone hardware comprises DC Offset Correction Loop circuit.

the encryption  
the computation

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